



Europäisches Patentamt
European Patent Office
Office européen des brevets



Publication number:

0 165 933 B1

(12)

EUROPEAN PATENT SPECIFICATION
published in accordance with Art.
158(3) EPC

- (45) Date of publication of patent specification: 10.04.91 (51) Int. Cl.⁵: **A61K 33/14, //A61K33/00, A61K31/70, A61K31/72**
- (21) Application number: 84903614.0
- (22) Date of filing: 28.09.84
- (86) International application number:
PCT/AU84/00188
- (87) International publication number:
WO 85/01657 (25.04.85 85/10)

The file contains technical information submitted
after the application was filed and not included in
this specification

(54) **TREATMENT OF ANIMAL DIARRHOEA.**

- | | |
|---|---|
| (30) Priority: 07.10.83 AU 1747/83 | 1982, pages 26-27; Chatham N.J., US |
| (43) Date of publication of application:
02.01.86 Bulletin 86/01 | PHARMACEUTISCHE ZEITUNG , 128, 22 (1983),
1169-1174 |
| (45) Publication of the grant of the patent:
10.04.91 Bulletin 91/15 | GUT 1971; 12; 184-193 |
| (84) Designated Contracting States:
AT BE CH DE FR GB LI LU NL SE | (73) Proprietor: THE STATE OF VICTORIA
Treasury Place
Melbourne Victoria 3000(AU) |
| (56) References cited:
EP-A-02 292 2 EP-A-05 905 7
AU-A-88 704 /82 AU-B-15 217 /56
GB-A- 1 541 461 JP-A- 5 839 625
US-A- 3 898 328 US-A- 4 042 864
US-A- 4 164 568 US-A- 4 308 255
US-A- 4 322 407

UNLISTED DRUGS, vol. 34, no. 2, February | (72) Inventor: JERRET, Ian Vincent

Sarsfield Via Baimsdale, VIC 3883(AU)

(74) Representative: Fry, Alan Valentine
FRY HEATH & CO. St. Georges House 6 Yat-
tendon Road
Horley Surrey RH6 7BS(GB) |

EP 0 165 933 B1

Not : Within nine months from the publication of the mention of the grant of the European patent, any person may give notice to the European Patent Office of opposition to the European patent granted. Notice of opposition shall be filed in a written reasoned statement. It shall not be deemed to have been filed until the opposition fee has been paid (Art. 99(1) European patent convention).

Table 2

Calf scour Trials 2 and 3 - Moribund calves

	<u>Milk</u>	<u>Milk +</u>	<u>Electrolyte</u>	<u>Nutr/Elect</u>	<u>New</u>
	<u>Antimcr.</u>		<u>(trolyte)</u>	<u>(Vtrate)</u>	<u>Soln.</u>
N. moribund calves	1/12	5/12	2/11	2/11	0/12
Blood pH (norm. 7.40)	7.15	6.92	7.19	6.82	-
Blood urea (mM)	28.4	25.8	16.6	19.4	-
Glucose (n mmol 2.8 - 7.5mM)	1.5	7.3	0.5	0.3	-
					thyoglycaemia

Claims

1. A veterinary composition suitable for the treatment of energy depletion, dehydration and electrolyt imbalance in diarrhoeic neonatal animals, which comprises glucose, one or more sodium salts and one or more chloride salts, the composition being characterised in that glucose is present in the composition in an amount sufficient to produce a concentration level of from 200 mM to 250 mM/l when in an aqueous solution, sodium salt is present in the composition in an amount sufficient to produce a sodium ion concentration level of from 60 mM to 120 mM/l when in an aqueous solution, and chloride salt is present in the composition in an amount sufficient to produce a chloride ion concentration level

of 50 mM to 90 mM/l when in an aqueous solution.

2. A veterinary composition as claimed in Claim 1 characterised in that it also includes one or more bicarbonate salts in an amount sufficient to produce a bicarbonate ion concentration level of 20 mM to 40 mM/l when in an aqueous solution.
3. A veterinary composition as claimed in Claim 1 or Claim 2 characterised in that it also includes one or more citrate salts in an amount sufficient to produce a citrate ion concentration level of 1 mM to 35 mM/l when in an aqueous solution.
4. A veterinary composition as claimed in Claim 1 characterised in that it consists of 88% w/w to 94% w/w of glucose monohydrate based on the total weight of the veterinary composition, and 6% w/w to 12% w/w of sodium chloride based on the total weight of the veterinary composition.
5. A veterinary composition as claimed in Claim 2 characterised in that it consists of 83% w/w to 92% w/w of glucose anhydrous based on the total weight of the veterinary composition, 5% w/w to 11% w/w of sodium chloride based on the total weight of the veterinary composition, and 3% to 8% w/w of sodium bicarbonate based on the total weight of the veterinary composition.
6. A veterinary composition as claimed in Claim 1 characterised in that it consists of 87% w/w to 93% w/w of dextrose (anhydrous) and 7% w/w to 13% w/w of sodium chloride based on the total weight of the veterinary composition.
7. A veterinary composition as claimed in Claim 2 characterised in that it consists of 81% w/w to 91% w/w of dextrose (anhydrous) based on the total weight of the veterinary composition, 5% w/w to 12% w/w of sodium chloride based on the total weight of the veterinary composition, and 3% w/w to 8% w/w of sodium bicarbonate based on the total weight of the veterinary composition.
8. A veterinary solution consisting of a composition as claimed in any one of Claims 1 to 7 in the form of an aqueous solution.
9. A veterinary aqueous solution as claimed in claim 8 comprising glucose, sodium (Na⁺) ions, and chloride (Cl⁻) ions, the composition being characterised in that the glucose concentration is in the range of 200 mM to 250 mM/l the sodium ion concentration is in the range 60 mM to 120 mM/l and the chloride ion concentration is in the range 50 mM to 90 mM/l.
10. A veterinary aqueous solution as claimed in Claim 9 characterised in that the aqueous solution composition further comprises bicarbonate (HCO₃⁻) ions at a concentration in the range of 20 mM to 40 mM/l.
11. A veterinary aqueous solution composition as claimed in Claim 9 or Claim 10 further characterised by citrate ions in the range of 1 mM to 35 mM/l.

Revendications

1. Un composé vétérinaire convenant au traitement de la déplétion, de la déshydratation et du déséquilibre en électrolytes chez les animaux nouveaux-nés souffrant de diarrhées, et comportant du glucose, un ou plusieurs sels de sodium et un ou plusieurs sels de chlore, le composé étant caractérisé en ce que le glucose est présent dans le composé en quantité suffisante pour donner un niveau de concentration de 200 mM à 250 mM/l en solution aqueuse, le sel de sodium est présent dans le composé en quantité suffisante pour donner un niveau de concentration en ions sodium d 60 mM à 120 mM/l en solution aqueuse et un sel d chlore est présent dans le composé en quantité suffisant pour donner un niveau d concentration d ions chlorure de 50 mM à 90 mM/l en solution aqueuse.
2. Un composé vétérinaire suivant la revendication 1 caractérisé en ce qu'il comporte aussi un ou plusieurs sels d bicarbonat en quantité suffisante pour donner un niveau de concentration d'ions bicarbonate de 20 mM à 40 mM/l n solution aqueus .